

SWP Water Quality Summary

October 14 to 21, 2009

Electrical Conductivity: Concentrations decreased at Harvey O. Banks Pumping Plant (HBP), Check 29, Check 41 and Vallecitos, but increased at Devil Canyon and Barker Slough from October 14 to 21, 2009. Concentrations ranged from 365 $\mu\text{S}/\text{cm}$ to 561 $\mu\text{S}/\text{cm}$ (219 mg/L to 337 mg/L), below the Article 19 Monthly Average Objective of 440 mg/L (733 $\mu\text{S}/\text{cm}$). As of October 21, the lowest concentration of 391 $\mu\text{S}/\text{cm}$ occurred at Barker Slough, while the highest concentration of 524 $\mu\text{S}/\text{cm}$ occurred at Devil Canyon. EC concentrations at HBP decreased from 499 $\mu\text{S}/\text{cm}$ to 447 $\mu\text{S}/\text{cm}$ as of October 21, 2009.

Bromide: Concentrations exceeded the California Bay Delta Authority (CBDA) Objective of 0.05 mg/L at all locations. Bromide concentrations ranged from 0.14 mg/L to 0.28 mg/L. As of October 21, Barker Slough had the lowest concentration of 0.16 mg/L, while the highest concentration of 0.25 mg/L occurred at Devil Canyon. Bromide concentrations are calculated values using linear regression equations using EC concentrations and are not as accurate as bromide concentrations from laboratory analysis.

Turbidity: From October 14 to 21, turbidity levels decreased at HBP, Check 41, Devil Canyon, Barker Slough and Vallecitos. Turbidity levels ranged from 1.3 NTU to 60.9 NTU during the week. As of October 21, 2009, the lowest level of 1.3 NTU occurred at Devil Canyon, while the highest level of 24.3 NTU occurred at Barker Slough. As of October 21, the levels at HBP decreased from 7.8 NTU to 5.8 NTU.

Dissolved Organic Carbon (DOC): DOC concentrations decreased from 2.3 mg/L to 2.2 mg/L at HBP, but increased from 2.2 mg/L to 2.4 mg/L at Check 13, from October 14 to 21, 2009.

Taste and Odor Compounds: As of October 19, MIB and geosmin levels ranged from ND to 24 ng/L at Clifton Court Inlet and Outlet, HBP, Del Valle Check 7, Check 41, and Lake Skinner.

Ground water pump-ins to the California Aqueduct during October 14 to 21 totaled 14,182 AF. The break down of the total volume was:

- Arvin Edison Water Storage District = 3,795 AF
- Kern Water Bank Authority (who operate the Kern Water Bank Canal) = 4,969 AF
- Kern County Water Agency (who operate the Cross Valley Canal) = 3,346 AF
- Semi-tropic Water Storage District = 2,072 AF.

As of October 21, 2009, no data were available for Edmonston Pumping Plant because of malfunctioning instruments.

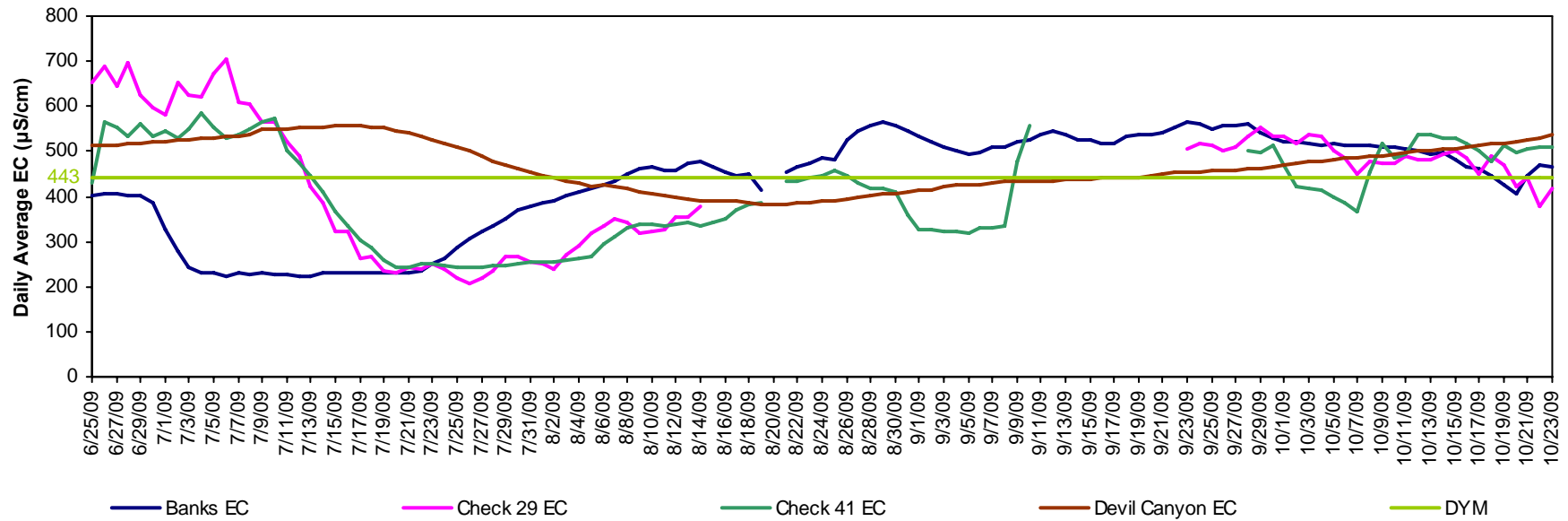
The intent of the weekly water quality (WQ) summary is to acquaint contractors, scientists and interested parties with the status of water quality in the State Water Project (SWP). Your comments, questions and suggestions are welcome and can be directed to Cindy Garcia @ 916-653-7213, or Austine Eke @ 916-653-7227. To view WQ data from the

automated stations along the SWP, visit:

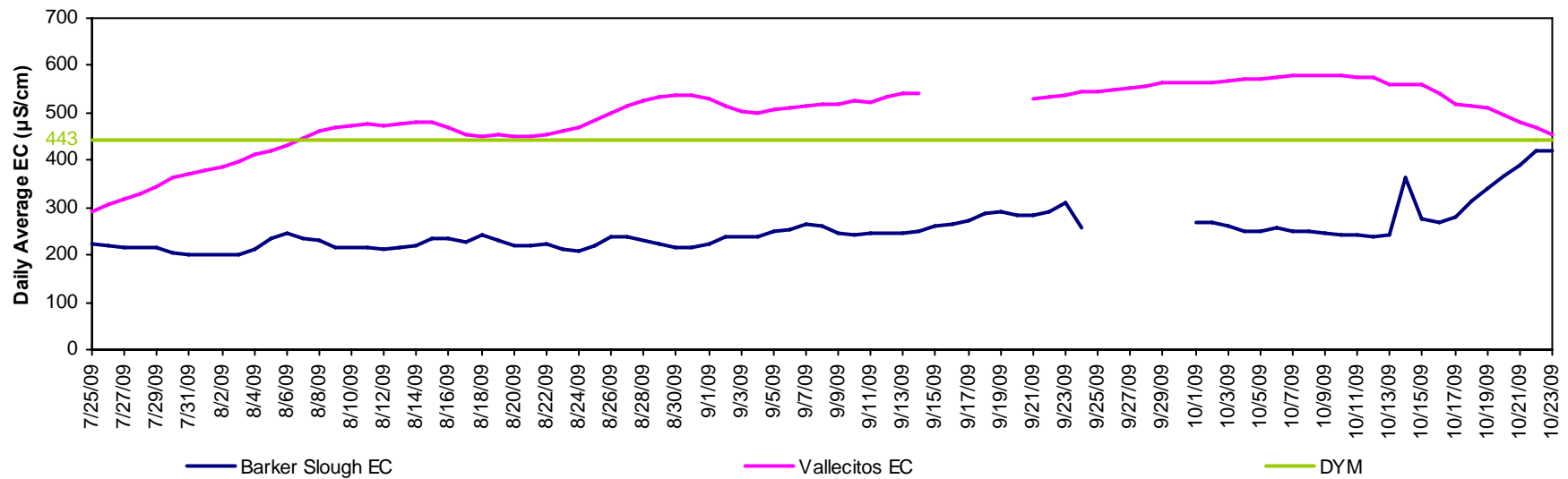
http://www.water.ca.gov/swp/waterquality/AutostationData/Autostation_map.cfm, and click on a station name on the map to link to the station's data on the California Data Exchange Center (CDEC) website.

To view the Edmondston's daily AF pumping data, visit: www.water.ca.gov. Click on the "State Water Project" tab, and click on the "Operations Control" link. Look under the "Project-Wide Operations" header for the "Dispatcher's Daily Water Report."

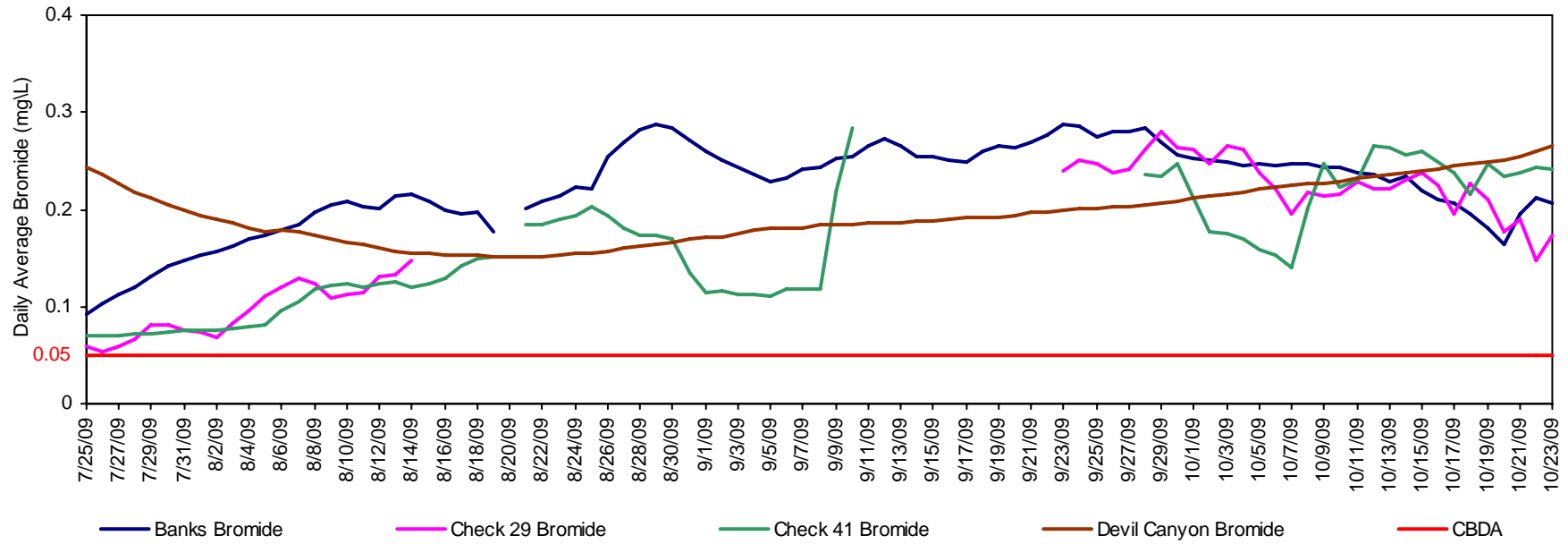
California Aqueduct - Electrical Conductivity



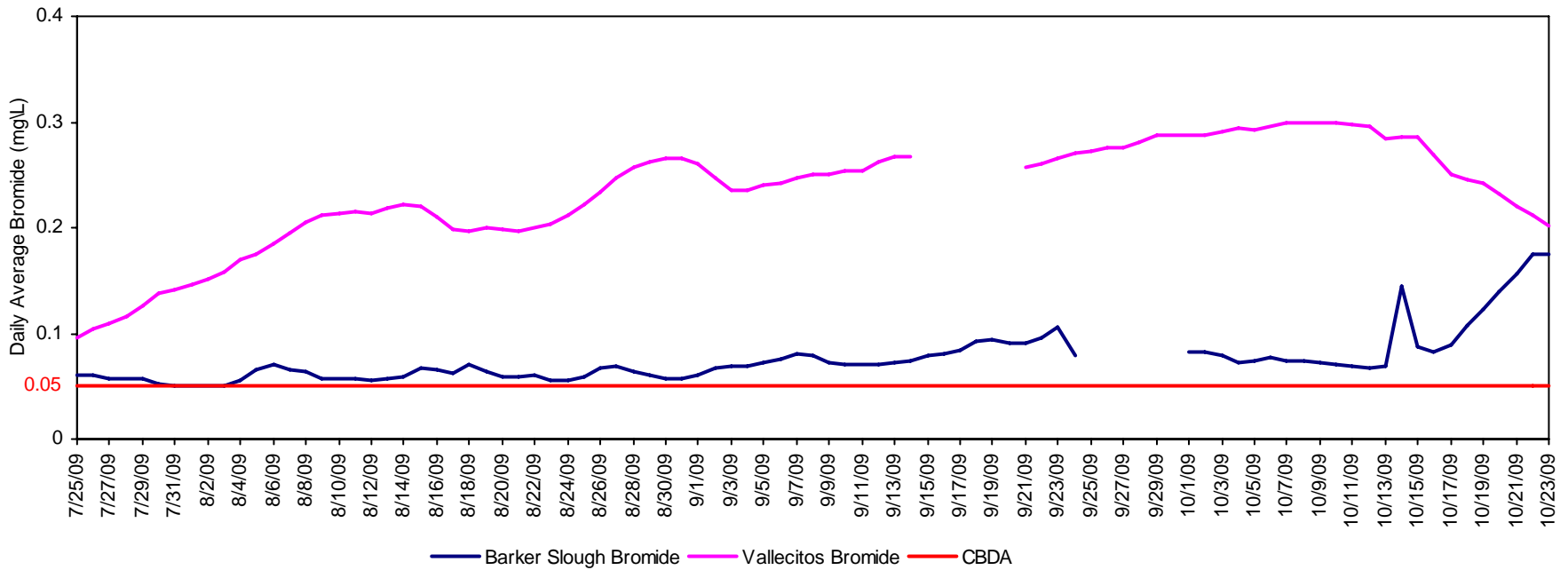
North and South Bay Aqueduct - Electrical Conductivity



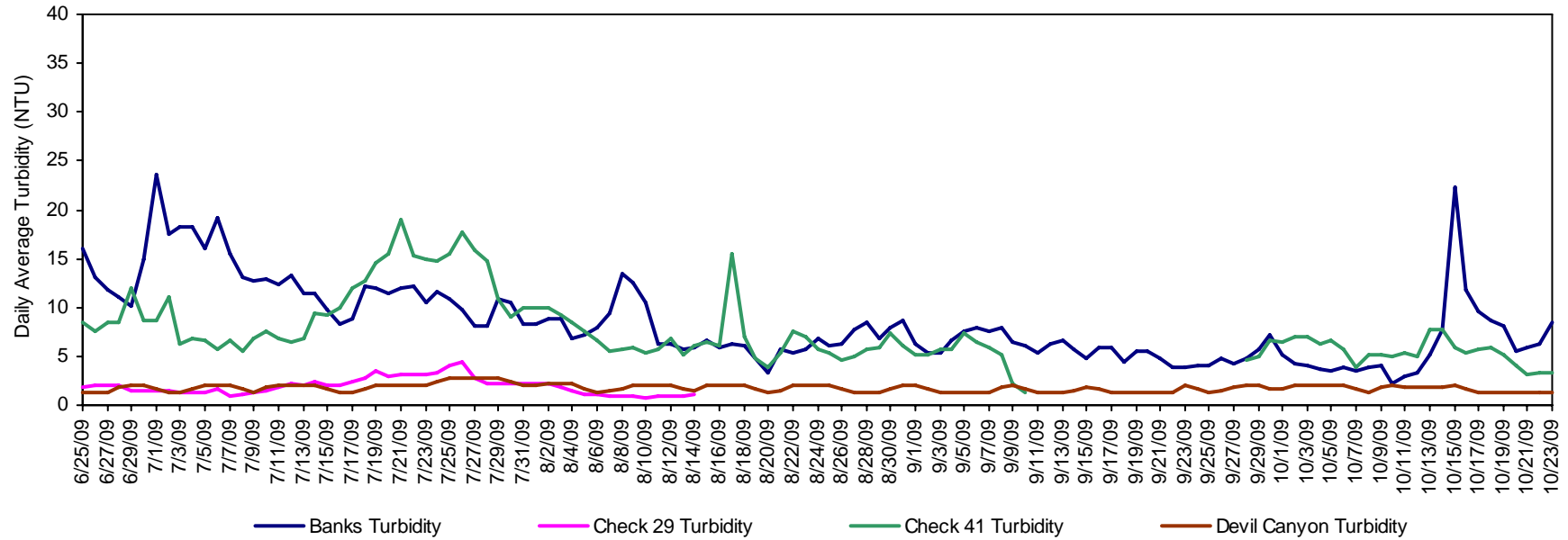
California Aqueduct - Calculated Bromide



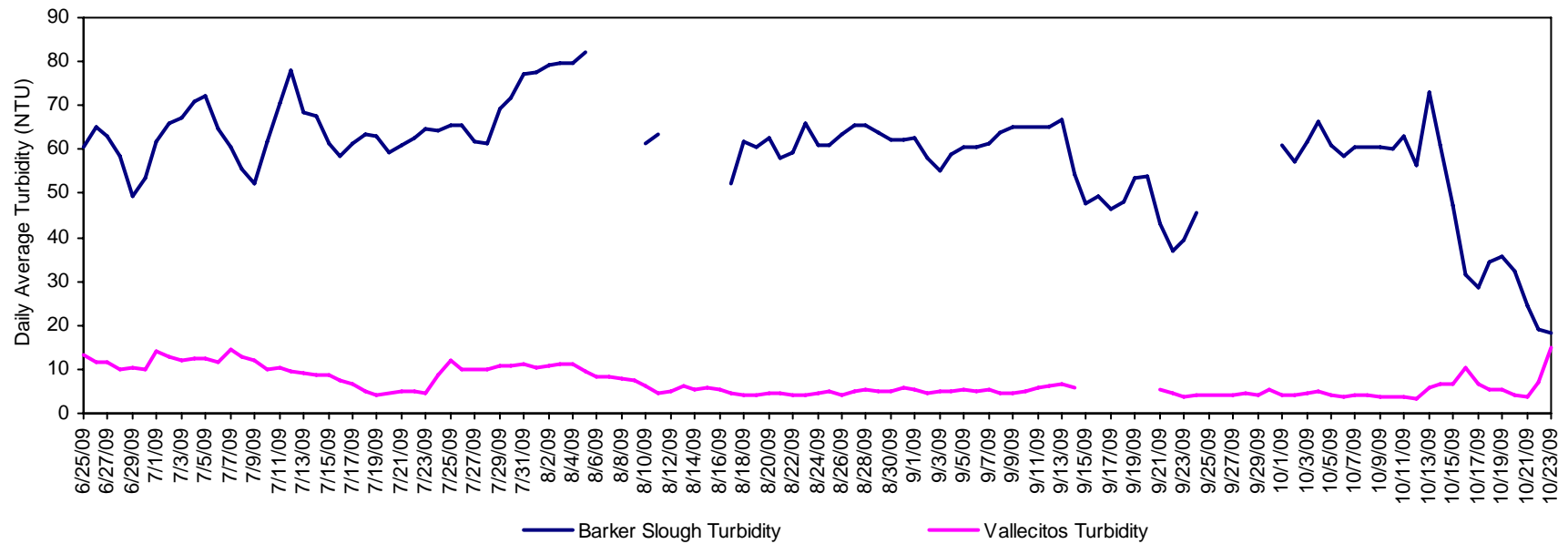
North and South Bay Aqueduct - Calculated Bromide



California Aqueduct - Turbidity



North and South Bay Aqueduct - Turbidity



California Aqueduct
Calculated Dissolved Organic Carbon

